

APRIL/MAY 2025

CCP43/FCP42 – RDBMS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define subclasses.
2. What symbols used in ER model?
3. Point out the 2 Aggregate functions of SQL.
4. What is Null?
5. Give a relation R(P,Q,R,S,T) and functional Dependency set $FD = \{PO, R, S, -T\}$ determine whether the given R is in 2NF? if not convert it in to 2NF.
6. which normal form is best?
7. Expand ISAM.
8. What is Hash clusters?

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9. List out the types of deadlocks.

10. What is concurrency control?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Highlights purpose of the database system.

Or

(b) Categorize the types of constraints on database?

12. (a) Discuss about the Advantages of dynamic SQL.

Or

(b) Identify the important of Data Integrity.

13. (a) Classify the types of Decomposition?

Or

(b) Mention the Disadvantages of Normalization.

14. (a) Describe the various kinds of Data storage.

Or

(b) What is file organisation? and explain it.

15. (a) What does a Transaction mean in DBMS?

Or

(b) State the purpose of system Recovery.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain database system 3 tier Architecture with diagram in detail.

17. Difference between Tuple Relational Calculus (TRC) and Domain Relational Calculus (DRC).

18. What is functional Dependency? Explain non - loss decomposition.

19. Explain 7 levels RAID?

20. Briefly explain the concurrency control.

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